

IN THE CLAIMS:

The following is a complete list of the claims now pending; this listing replaces all earlier versions and listings of the claims.

1. (currently amended) In combination:

a chamber in which a process is carried out such that substances in said chamber are exposed to the effect of one or more high frequency radiation;[and]

at least one low melting point temperature sensor arranged in a pressure line to produce, upon melting, a change in pressure in said pressure line, said sensor and said pressure line being mounted in said chamber and each being of a material that does not react to and does not affect high frequency radiation[,]said sensor being mounted in said chamber to detect a process-critical state, said being connected with a safety device for controlling the effect of said process-critical state; and

a safety device that responds to a change in pressure in said pressure line to control the temperature in said chamber.

2. (currently amended) [A]In combination; according to claim 1, wherein said sensor detects temperature and said safety device includes a pressure line that allows high frequencies to pass through it and which is located in the chamber, said pressure line having a low melting temperature
a chamber in which a process is carried out such that substances in said chamber are exposed to the effect of one or more high frequency radiation;

at least one low melting point temperature sensor arranged in a pressure line, said sensor and said pressure line being mounted in said chamber and each being of a material that does not affect high frequency radiation;

a safety device that responds to a melting of said sensor to control the temperature in said chamber.

3. (previously presented) A combination according to claim 9, wherein said seal comprises plastic.

4. (currently amended) A combination according to claim [2]1, wherein said pressure line is a rigid pipe which extends into said chamber.

5. (currently amended) A combination according to claim [2]1, wherein said pressure line is a flexible pipe or tube.

b) 6. (currently amended) A combination according to claim [2]1, wherein said pressure line is a functional element of said safety device.

7. (currently amended) A combination according to claim [2]1, further including a pressure-sensitive controller connected to said pressure line for activation of the safety device.

8. (previously presented) A combination according to claim 7, wherein said pressure sensitive controller is also connected with at least one other sensor.

9. (previously presented) A combination according to claim 1, wherein said sensor detects temperature and said safety device includes a pressure line that allows high frequencies to pass through it and which protrudes into said chamber and which has a seal, said pressure line and said

seal being pressure-stable and constructed to permit passage of high frequencies, said seal having a low melting temperature.

10. (currently amended) A combination according to claim [2]1, wherein said pressure line is a pressurized line of a fire extinguishing system which carries an extinguishing agent.

11. (currently amended) A combination according to claim [2]1, further including a pressure-sensitive controller connected to said pressure line for activation of the safety device.

12. (previously presented) A combination according to claim 1, wherein said safety device is a fire extinguishing system or a cooling unit which uses inert gases for cooling.

13. (previously presented) A combination according to claim 3, wherein said plastic is selected from the group consisting of polyethelyene, polypropylene, polystyrene and a combination thereof.

14. (previously presented) A combination according to claim 6, wherein said pressure line is a pressurized line of a fire extinguishing system.

15. (previously presented) A combination according to claim 8, wherein said sensor is a pressure, temperature or humidity sensor for monitoring process conditions.